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Title: Generation and Maintenance of SDSs at KCNSC

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Intended for: Funding discussions for KCNSC support of LANL technical specification

generation.

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Generation and Maintenance of SDSs at KCNSC

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Topics



- Describe three options to generate KCNSC Seven Digit Specifications (SDSs) for LANL Process Materials (PMs).
- Qualitative costs and benefits of each option.
- Recommendation on a path forward.

Background



- KCNSC maintains SDSs for every organization within the Enterprise.
 - Specifications are compliant with DPBPS T089.
 - Specifications are maintained on KCNSC ECM system.
 - KCNSC has the ability to generate SDSs.
- KCNSC procures materiel using SDSs.
 - KCNSC can procure materiel for other organizations and provide them via IP transfer (no local acceptance inspection other than kick and count).



Background



- LANL is converting P-Specs to SDSs to support current weapons programs.
 - P-Specs have not been maintained since the last campaign.
 - SDSs are being generated with equivalent technical requirements to P-Specs, hopefully minimizing any reevaluation burden imposed by a DA.

Option 1



- SDS Generation, SDS Maintenance, and PM Procurement through KCNSC:
 - Generation of SDSs from LANL-supplied content.
 - Adjudication and possible tailoring of SDS content to satisfy KCNSC Quality Management requirements.
 - End-to-end evaluation of every LANL PM in the KCNSC system:
 - PM sources/vendor development (new versus existing).
 - Evaluation of SDS, storage, and shipping constraints/requirements.
 - Incorporation of PM-specifics in KCNSC database (specifics not in SDSs).
 - Quality review and adjudication of acceptance test requirements.
 - Acceptance test development.
 - Database set-up and maintenance.
 - Mock procurement and acceptance evaluation of each PM.

ROM Estimate of at Least Two Additional FTEs at KCNSC to Support Option 1.

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Option 1



- Program Cost: High
- Program Benefits:
 - LANL retains "ownership" of SDSs.
 - Turnkey PM (IP) delivery to LANL (without acceptance testing issues).
 - KCNSC vendor management.
- Program Uncertainties:
 - Prioritization of LANL PMs at KCNSC to support production builds.
 - Some PMs may still have to be procured through local source(s).



Options 2 & 3



- Option 2: SDS Generation and Maintenance
 - KCNSC generation of SDSs from LANL-supplied content.
 - KCNSC maintenance and configuration management of SDSs in ECM.
 - This option is much more economical than Option 1.
 - Uncertainty: Resurrection of WRMCB acceptance testing.
- Option 3: SDS Maintenance at KCNSC
 - LANL would provide formatted SDS content to KCNSC (requiring minimal work to issue an SDS).
 - KCNSC maintenance and configuration management of SDSs in ECM.
 - This option is marginally more economical than Option 2.
 - Uncertainty: Additional discussions with KCNSC required to further explore the LANL input to KCNSC.

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Recommendation



- Option 3: SDS Maintenance at KCNSC
 - Most economical of the three options.
 - LANL is currently generating formatted draft SDSs for DA review.
 - LANL will be compliant with DPBPS T089 and DA requirements.
 - The option exists to incorporate KCNSC as a material supplier (Option 1) in the future on an as-needed/as-desired basis.

What is Needed?

- IPM support of discussions with KCNSC Program Management.
- Funding of effort.

